Mustafa A. Ahmed

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Software Engineer || .Net Developer || Web Developer || Back-end Developer

Skills

- C# | .Net | C++ | Java | Java Servlet |Spring Boot | .Net Entity Framework | JDBC | Spring Security | JWT | Spring Data JPA | Spring RestAPI | Production-Grade Database | Spring Cloud Stream | Apache Kafka | Docker | Git | GitHub | HTML | CSS | BootStrap | JavaScript | PHP | MySQL | MongoDB | NoSQL
- Agile | Linux | OOP | Data Structures | Algorithms | SOLID Principles | Design Patterns
- Problem-solving | English, Arabic – *All professional proficiency or above*

Experience

Member in the Scientific Committee — **HUN Scientific Committee** — *Hurghada, RS , EG*

- Worked as a member in Scientific Committee in Computers and AI Collage in South Valley University.

Consistent and Problem Solver — **ECPC Community** — *Hurghada, RS , EG*

- Guiding individuals gearing up for coding contests and aiding over three-quarters of college students in readying for coding competitions.

Education

Bachelor in Computer Science and AI — **Faculty of Computers and AI in Hurghada** — *Hurghada, BA, EG* — **10/2021 - 07/2025**

- South Valley University
- **Computer Science** Department
- **3.67** GPA (Excellent)

Projects

- **Muse Do | To Do List Application (Java):**
  Boost your productivity with Muse Do, a user-friendly to-do list application built in Java.
  Features:
  - **Effortless Task Management**: Effortlessly add new tasks to your list.
  - **Mark it Done**: Mark completed tasks as finished .
  - **Stay Organized**: View all your tasks in a convenient list.
  - **Save and Exit**: Peace of mind knowing your tasks are securely saved in a text file, even after you exit the application.

  Technology Stack:
  - Native JAVA | JAVA FX | OOP | Data Structure

  Project Link: Github link

- **Auxo | E-Commerce Platform: Scalable and Efficient Shopping Experience (Spring & Spring Boot)**
  Introducing a robust E-commerce solution architected with Spring and Spring Boot for high scalability and maintainability. This platform leverages microservices, a modern approach for building complex applications, to ensure efficient handling of core functionalities.
  Microservices Breakdown:
  - **User Authentication Service (Spring Security, JWT):** Handles user registration, login, and authorization.
  - **Product Service (Spring Data JPA, Production-Grade Database):** Manages product information including details, inventory, and images.
  - **Order Service (Spring Cloud Stream, Apache Kafka):** Processes order creation, payment integration, and order fulfillment.

  Technology Stack:
  - Spring | Spring Boot | Spring Security | Spring Data JPA | Production-Grade Database (MySQL)| Spring Cloud Stream |Apache Kafka

  Project Link: Github link

- **Web Viewer Mobile App (JAVA):**
  Features:
  - lets you view websites directly within the app, like a simple browser for one site.

  Benefits:
  - It offers a faster and more focused way to access a favorite website on your phone.

  Technology Stack:
  - Android Studio | JAVA

  Project Link: Github link

- **Gold and Silver Currencies API (JAVA):**

  This Java project provides a user-friendly interface to retrieve real-time gold and silver prices in various currencies using an external API.

  Features:

  - **User Input**: Prompts the user to enter a valid currency symbol .
  - **API Integration**: Connects to a reputable gold and silver prices API to fetch current spot prices.
  - **Output**: Displays the gold and silver prices formatted appropriately for the chosen currency (e.g., including decimals, currency symbols).
  - **Error Handling**: Validates user input for supported currency symbols and gracefully handles potential API errors or network issues.

  Benefits:

  - **Convenient Price Lookups**: Allows users to easily access up-to-date gold and silver prices in their preferred currency.

  Technology Stack:

  - JAVA | Eclipse IDE | API

- **Planning and Mapping Robot:**

  This project details the creation of a **DIY mapping robot** constructed with an Arduino Uno, ideal for exploring and understanding indoor environments.

  Mapping on the Move:

  - As the robot navigates using its DC motors, it continuously gathers data from the ultrasonic sensors. This data is processed by the Arduino Uno to create a **basic 2D map** of the explored space, focusing on identifying potential obstacles.

  Benefits:

  - **Identify Obstacles:** Visualize your indoor environment with a robot-generated map, highlighting potential obstacles for safe navigation.

  Technology Stack:

  - Arduino IDE | C++

Others

- **Consistent** certificate in **ECPC 2022.**
- **Member** certificate in **the Scientific Committee of Computers and AI Collage in Hurghada.**